·	Application No.	Applicant(s)	
M-41	09/706,157	NEMIROVSKY ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Eric Coleman	2183	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	
1. This communication is responsive to <u>RCE and disclosure s</u>	tatement filed 1/3/05 , and amendm	ent filed 9/22/04.	
2. ☑ The allowed claim(s) is/are <u>1-20</u> .			
 3. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 			
2. Certified copies of the priority documents have	been received in Application No	·	
3. Copies of the certified copies of the priority doc			
International Bureau (PCT Rule 17.2(a)).		·	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply of ENT of this application.	complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAMINER's s reason(s) why the oath or declarat	S AMENDMENT or NOTICE OF ion is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.		
(a) ☐ including changes required by the Notice of Draftsperso		948) attached	
1) hereto or 2) to Paper No./Mail Date	•	,,	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the O	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in th	84(c)) should be written on the drawin e header according to 37 CFR 1.121(d	gs in the front (not the back) of).	
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F 	it of BIOLOGICAL MATERIAL m FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.	
Attachment(s) 1. □ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal Pa	atent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summary (PTO-413),	
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	Paper No./Mail Date 3), 7. ☐ Examiner's Amendm	Paper No./Mail Date	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Statemer	nt of Reasons for Allowance	
or biological material	9.	Eric Coleman Primary Examiner	

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The combination of features in the independent claims was not found in the prior art as follows: The prior art comprises a processor with and multiple port instruction cache and plural dispatchers that operate independently and fetching and executing instruction streams or program threads that are grouped according to something in common between the streams or threads in the particular group and a queue for dispatch of threads in the group. However, the additional combination of features in combination with the features above as claimed in claim 1, further comprise clusters of instruction streams where each cluster is independent of the other cluster of instruction streams and comprise a dispatcher for each cluster but also wherein each stream in a cluster has its own instruction queue, this combination of features was not found in the prior art. Claim 9 comprises clusters of instruction streams where each cluster is independent of the other cluster of instruction streams and each cluster comprises a dispatcher. Claim 9 also includes the additional feature including that in each cycle fetching instructions from the instruction cache for one of the instruction streams in each of the first and second cluster, this combination was not found in the prior art. Claim 17 comprises plural clusters of instruction threads wherein each cluster comprises fetch stage, plurality of instruction queues, dispatch stage coupled to the instruction queues that queue the threads in the cluster, and execution stage and also wherein the clusters concurrently access the cache, this combination of features was not found in the prior art.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Coleman whose telephone number is (571) 272-4163. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached on (571) 272-4162. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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ERIC COLEMAN PRIMARY EXAMINER